

ABSTRACT OF THE DISCLOSURE

An injection molding machine with a vertically displaceable closing unit, comprises a plate-like lower yoke as the counterpressure plate; a plate-like upper yoke as the stationary mold clamping plate; at least three vertically aligned struts connecting the lower yoke and the upper yoke with each other in a force-locked manner; as well as another plate-like element serving as the displaceable mold clamping plate, which is displaceable on the struts by one or more driving cylinders having a small cross section and a large stroke length. The displaceable mold clamping plate is displaceable by one or more driving cylinders stopped on the displaceable mold clamping plate and on the counterpressure plate, such that molding tool halves arranged on surfaces of the mold clamping plates can be driven from a maximum spacing into a position of mutual abutment, and vice-versa. In the abutting position, a short-stroke cylinder with a larger cross section and acting between the counterpressure plate and the displaceable mold clamping plate can be engaged to generate the required closing pressure. The engageable short-stroke cylinder is a piston-and-cylinder system to which a fluid medium can be admitted. This system can be retracted and extended in the abutting position from the closing unit in the horizontal direction between the counterpressure plate and the displaceable mold clamping plate.